



A. Channel Excavation

1. All erosion and sediment control devices shall be installed as the first order of business.
2. All disturbance resulting from construction of the channel shall be contained by appropriate sediment control measures.
3. Excavation of the channel shall begin at the downstream end and proceed upstream. All excavated materials shall be stockpiled outside of the floodplain and temporarily stabilized to prevent re-entry into the stream.
4. The process of excavation and stabilization with fabric shall be a continuous (uninterrupted) operation. All materials shall be on-site prior to channel construction.
5. The downstream and upstream connection to the natural channel shall be constructed under dry conditions. The stream shall be contained by sandbags along the opposing bank during the process of cutting the diversion channel into the stream channel. Excavation and stabilization shall be a continuous (uninterrupted) operation.
- 6 All debris (rocks, sticks, etc.) shall be removed and the channel surfaces made smooth so that the fabric will rest flush with the channel sides and bottom.

B. Stabilization with Filter Fabric

1. The fabric shall have a minimum width such that it is keyed in and anchored at the top of the stream bank. As shown in the details.
2. Fabric shall be placed so that it rests flush with the channel at the points of contact.
3. Fabric shall be placed so that one piece will line the entire channel. If this is not possible, fabric shall be placed so that transverse overlapping occurs. Longitudinal overlaps shall not be allowed. Upstream sections shall overlap downstream sections. Overlap width shall equal 2 feet minimum.
4. The fabric shall be keyed in trenches cut in the ground at the top of channel and secured as shown in the detail.
5. The fabric sections shall be secured as per detail (L=18 inch minimum) and washer (diameter=1 inch minimum). Overlap shall be pinned along transverse and longitudinal axis with spacing equal to 3 feet maximum.
6. Sediment from surrounding areas of disturbance shall not be allowed to enter the diversion channel.
7. Fabric to be keyed in 6 inch



MONTGOMERY COUNTY
DEPARTMENT OF PERMITTING
SERVICES
WATER RESOURCES

FABRIC BASED
CHANNEL DIVERSION
DETAIL

DATE: 6/03

SCALE: NONE